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**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/852,020**

1819 #9
7/29/78
30F

DATE: 12/10/97
TIME: 13:07:05

INPUT SET: S22008.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Maruyama, Ichiro
Maruyama, Hiroko
Brenner, Sydney

9 (ii) TITLE OF INVENTION: LAMBDOID BACTERIOPHAGE VECTORS FOR
10 EXPRESSION OF FOREIGN PROTEINS

12 (iii) NUMBER OF SEQUENCES: 15

(iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: The Scripps Research Institute, Office of
16 Patent Counsel
17 (B) STREET: 10666 North Torrey Pines Road, TPC8
18 (C) CITY: La Jolla
19 (D) STATE: CA
20 (E) COUNTRY: USA
21 (F) ZIP: 92037

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0 Version #1 25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/852,020
(B) FILING DATE: 06-MAY-1997
(C) CLASSIFICATION: 435

(vii) PBTOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/286,888
(B) FILING DATE: 05-AUG-1994

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Fitting, Thomas
(B) REGISTRATION NUMBER: 34,163
(C) REFERENCE/DOCKET NUMBER: TSP1 422 0

(ix) TELECOMMUNICATION INFORMATION.

TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 619-554-2937
(B) TELEFAX: 619-554-6312

46

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/852,020DATE: 12/10/97
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47

(2) INFORMATION FOR SEQ ID NO:1:

49

50

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 246 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

55

56

(ii) MOLECULE TYPE:

57

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

61

62

Met Pro Val Pro Asn Pro Thr Met Pro Val Lys Gly Ala Gly Thr Thr
1 5 10 15

63

64

65

Leu Trp Val Tyr Lys Gly Ser Gly Asp Pro Tyr Ala Asn Pro Leu Ser
20 25 30

66

67

68

69

Asp Val Asp Trp Ser Arg Leu Ala Lys Val Lys Asp Leu Thr Pro Gly
35 40 45

70

71

72

73

Glu Leu Thr Ala Glu Ser Tyr Asp Asp Ser Tyr Leu Asp Asp Glu Asp
50 55 60

74

75

76

Ala Asp Trp Thr Ala Thr Gly Gln Gly Gln Lys Ser Ala Gly Asp Thr
65 70 75 80

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81

Ser Phe Thr Leu Ala Trp Met Pro Gly Glu Gln Gly Gln Gln Ala Leu
85 90 95

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Leu Ala Trp Phe Asn Glu Gly Asp Thr Arg Ala Tyr Lys Ile Arg Phe
100 105 110

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Pro Asn Gly Thr Val Asp Val Phe Arg Gly Trp Val Ser Ser Ile Gly
115 120 125

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Lys Ala Val Thr Ala Lys Glu Val Ile Thr Arg Thr Val Lys Val Thr
130 135 140

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Asn Val Gly Arg Pro Ser Met Ala Glu Asp Arg Ser Thr Val Thr Ala
145 150 155 160

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RAW SEQUENCE LISTING
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100
101
102 Ala Thr Gly Met Thr Val Thr Pro Ala Ser Thr Ser Val Val Lys Gly
103 165 170 175
104
105
106 Gln Ser Thr Thr Leu Thr Val Ala Phe Gln Pro Glu Gly Val Thr Asp
107 180 185 190
108
109
110
111 Lys Ser Phe Arg Ala Val Ser Ala Asp Lys Thr Lys Ala Thr Val Ser
112 195 200 205
113
114
115 Val Ser Gly Met Thr Ile Thr Val Asn Gly Val Ala Ala Gly Lys Val
116 210 215 220
117
118
119 Asn Ile Pro Val Val Ser Gly Asn Gly Glu Phe Ala Ala Val Ala Glu
120 225 230 235 240
121
122
123 Ile Thr Val Thr Ala Ser
124 245
125
126 (2) INFORMATION FOR SEQ ID NO:2:
127
128 (i) SEQUENCE CHARACTERISTICS:
129 (A) LENGTH: 21 base pairs
130 (B) TYPE: nucleic acid
131 (C) STRANDEDNESS: single
132 (D) TOPOLOGY: linear
133
134 (ii) MOLECULE TYPE: DNA (genomic)
135
136
137
138 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
139
140 AGTGTGGAGC TCTACCCTTT C 21
141
142 (2) INFORMATION FOR SEQ ID NO:3:
143
144 (i) SEQUENCE CHARACTERISTICS:
145 (A) LENGTH: 24 base pairs
146 (B) TYPE: nucleic acid
147 (C) STRANDEDNESS: single
148 (D) TOPOLOGY: linear
149
150 (ii) MOLECULE TYPE: DNA (genomic)
151
152

**RAW SEQUENCE LISTING
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153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
154
155 CGCCTGTAAT AAGCGGCCGC AGCT
156
157 (2) INFORMATION FOR SEQ ID NO:4:
158
159 (i) SEQUENCE CHARACTERISTICS:
160 (A) LENGTH: 18 base pairs
161 (B) TYPE: nucleic acid
162 (C) STRANDEDNESS: single
163 (D) TOPOLOGY: linear
164
165 (ii) MOLECULE TYPE: DNA (genomic)
166
167
168
169
170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
171
172 GCGGCCGCTT ATTACAGG
173
174 (2) INFORMATION FOR SEQ ID NO:5:
175
176 (i) SEQUENCE CHARACTERISTICS:
177 (A) LENGTH: 910 base pairs
178 (B) TYPE: nucleic acid
179 (C) STRANDEDNESS: single
180 (D) TOPOLOGY: linear
181
182 (ii) MOLECULE TYPE: DNA (genomic)
183
184
185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
186
187 AAATGTGAGG ACGCTATGCC TGTACCAAAT CCTACAATGC CGGTGAAAGG 500
188
189 TGCCGGGACC ACCCTGTGGG TTTATAAGGG GAGCGGTGAC CCTTACGCGA 1000
190
191 ATCCGCTTTC AGACGTTGAC TGGTCGGCTC TGGCAAAAGT TAAAGACCTG 1500
192
193 ACGCCCCGGCG AACTGACCGC TGAGTCCTAT GACGACAGCT ATCTCGATGA 2000
194
195 TGAAGATGCA GACTGGACTG CGACCGGGCA GGGGCAGAAA TCTGCCGGAG 2500
196
197 ATACCAGCTT CACGCTGGCG TGGATGCCCG GAGAGCAGGG GCAGCAGGCG 3000
198
199 CTGCTGGCGT GGTTAACGAA AGGCGATACC CGTGCCTATA AAATCCGCTT 3500
200
201 CCCGAACGGC ACGGTCGATG TGTTCCGTGG CTGGGTCAAGC AGTATCGGTA 4000
202
203 AGGCAGGTGAC GGCGAAGGAA GTGATCACCC GCACGGTCAA AGTCACCAAT 4500
204
205 GTGGGACGTC CGTCGATGGC AGAAGATCGC AGCACGGTAA CAGCGGCAAC 5000

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206 CGGCATGACC GTGACGCCCTG CCAGCACCTC GGTGGTAAA GGGTAGAGCT 550
207
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227
228 (2) INFORMATION FOR SEQ ID NO:6:
229
230 (i) SEQUENCE CHARACTERISTICS:
231 (A) LENGTH: 292 amino acids
232 (B) TYPE: amino acid
233 (D) TOPOLOGY: linear
234
235 (ii) MOLECULE TYPE: protein
236
237 (ix) FEATURE:
238 (A) NAME/KEY: peptide
239 (B) LOCATION: 177
240 (C) OTHER INFORMATION: /label= Xaa
241 /note= "Wherein Xaa is a suppressor termination
242 codon"
243
244
245 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
246
247 Met Pro Val Pro Asn Pro Thr Met Pro Val Lys Gly Ala Gly Thr Thr
248 1 5 10 15
249
250 Leu Trp Val Tyr Lys Gly Ser Gly Asp Pro Tyr Ala Asn Pro Leu Ser
251 20 25 30
252
253 Asp Val Asp Trp Ser Arg Leu Ala Lys Val Lys Asp Leu Thr Pro Gly
254 35 40 45
255
256 Glu Leu Thr Ala Glu Ser Tyr Asp Asp Ser Tyr Leu Asp Asp Glu Asp
257 50 55 60
258

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**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/852,020**

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